

CLAIMS

sub 31 What is claimed is:

1. A multifunction remote controlled recording/playback system for recording full motion video signals comprising a series of sequential "still" frames, the recording/playback system comprising:

- a. a recorder/player;
- b. a central processing unit for controlling the recording/playback system;
- c. a video signal source for providing a video signal;
- d. a video signal display monitor;
- e. a video signal transmission system;
- f. a video signal switching system responsive to commands from the central

processor unit for selectively distributing the video signal to the recorder/player, the display monitor and the transmission system, wherein a full motion video signal may be distributed to the recorder/player while a selected still frame of the video signal is distributed to other components of the system.

2. The multifunction remote controlled recording/playback system of claim 1, further comprising a digital capture system for creating a still frame on the fly as the full motion video signal is generated by the video signal source, whereby a full field still frame is produced.

3. The multifunction remote controlled recording/playback system of claim 1, further comprising means for capturing a selected group of sequential still frames on the fly as the full motion video signal is generated by the video signal source.

4. The multifunction remote controlled recording/playback system of claim 1, wherein the video signal transmission system is adapted for transmitting full motion video signals in a first mode as the full motion video signal is generated by the video signal source and in a second mode as a playback of the recorded full motion video signal from the recorder/player.

5. The multifunction remote controlled recording/playback system of claim 1, further

including an audio signal generator for generating an audio signal which can be recorded by the recorder/player in real time synchronization with the full motion video signal.

6. The multifunction remote controlled recording/playback system of claim 1, further including a data signal generator for generating a data signal which can be recorded by the recorder/player in real time synchronization with the full motion video signal.

7. The multifunction remote controlled recording/playback system of claim 6, wherein the data signal generator is a gps signal generator.

8. The multifunction remote controlled recording/playback system of claim 1, further including a marking signal generator, whereby specific, selected still frames of the recorded full motion video signal may be marked, the system being adapted to select said frames by searching for the marks, for distribution of the recorded marked frames by the video switching system.

Sub 32 9. The multifunction remote controlled recording/playback system of claim 8, wherein the marking signal generator is operative in a plurality of modes, a first mode being manually activated by an operator and a second mode being activated by a preselected data signal.

10. The multifunction remote controlled recording/playback system of claim 1, wherein the central processing unit is a Pentium class processor.

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